## IN THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

## **LISTING OF CLAIMS**

1. (Currently Amended) A telecommunications apparatus comprising:

a plurality of telecommunications physical layer interfaces,
one or more telecommunications higher-layer processors, and
a digital cross-connect connected to route telecommunications traffic
among the physical layer interfaces and the one or more <u>telecommunications</u>
higher-layer processors,

wherein the digital cross-connect is interposed between the physical layer interface and the one or more telecommunications higher-layer processors.

- 2. (Original) The apparatus of claim 1 wherein at least one of the physical layer interfaces is a SONET physical layer interface.
- 3. (Original) The apparatus of claim 1 wherein a higher layer processor is an asynchronous transfer mode (ATM) processor.
- 4. (Original) The apparatus of claim 1 wherein a higher layer processor is an internet protocol (IP) processor.

- 5. (Currently Amended) The apparatus of claim 2 wherein the digital cross-connect is configured to provide 1:1 automatic protection switching for communications traffic from at least one of the physical layer interfaces to one or more <u>telecommunications</u> higher-layer interfaces.
- 6. (Currently Amended) The apparatus of claim 2 wherein the digital cross-connect is configured to provide 1:N automatic protection switching for communications traffic from at least one of the physical layer interfaces to one or more <u>telecommunications</u> higher-layer interfaces.
- 7. (Currently Amended) The apparatus of claim 2 wherein the digital cross-connect is configured to provide 1:1 automatic protection switching for communications traffic to at least one of the physical layer interfaces from one or more <u>telecommunications</u> higher-layer interfaces.
- 8. (Currently Amended) The apparatus of claim 2 wherein the digital cross-connect is configured to provide N:1 automatic protection switching for communications traffic to at least one of the physical layer interfaces from one or more <u>telecommunications</u> higher-layer interfaces.
  - 9. (Currently Amended) A packet-switching system comprising: one or more telecommunications apparatuses, each apparatus including: a plurality of telecommunications physical layer interfaces, one or more telecommunications higher-layer processors, and

a digital cross-connect connected to route telecommunications traffic among the physical layer interfaces and the one or more <u>telecommunications</u> higher-layer processors.

wherein the digital cross-connect is interposed between the physical layer interface and the one or more telecommunications higher-layer processors, and

a packet switch fabric <u>operable</u> <del>connected</del> to switch telecommunications traffic, received at one or more of the physical layer interfaces, to <u>at least one other of the</u> one or more <del>of the</del> physical layer interfaces.

- 10. (Original) The system of claim 9 wherein at least one of the physical layer interfaces is a SONET physical layer interface.
- 11. (Original) The system of claim 9 wherein a higher layer processor is an asynchronous transfer mode (ATM) processor.
- 12. (Original) The system of claim 9 wherein a higher layer processor is an internet protocol (IP) processor.
- 13. (Currently Amended) The system of claim 10 wherein the digital cross-connect is configured to provide 1:1 automatic protection switching for communications traffic from at least one of the physical layer interfaces to one or more <u>telecommunications</u> higher-layer interfaces.

- 14. (Currently Amended) The system of claim 10 wherein the digital cross-connect is configured to provide 1:N automatic protection switching for communications traffic from at least one of the physical layer interfaces to one or more <u>telecommunications</u> higher-layer interfaces.
- 15. (Currently Amended) The system of claim 10 wherein the digital cross-connect is configured to provide 1:1 automatic protection switching for communications traffic to at least one of the physical layer interfaces from one or more <u>telecommunications</u> higher-layer interfaces.
- 16. (Currently Amended) The system of claim 10 wherein the digital cross-connect is configured to provide N:1 automatic protection switching for communications traffic to at least one of the physical layer interfaces from one or more <u>telecommunications</u> higher-layer interfaces.
- 17. (Currently Amended) A method of switching telecommunications traffic comprising the steps of:
- (A) receiving telecommunications traffic at a telecommunications physical interface;
- (B) routing the received telecommunications traffic from the physical interface to a digital cross-connect; and
- (C) routing the telecommunications traffic through the <u>digital</u> crossconnect to a telecommunications higher-layer processor,

wherein the digital cross-connect is interposed between the physical layer interface and the one or more telecommunications higher-layer processors.

- 18. (Currently Amended) The method of claim 17 further comprising the step of:
- (D) routing the telecommunications from the <u>telecommunications</u> higher-layer processor through a packet switch fabric to <u>another</u> [[a]] higher-layer processor;
- (E) routing the telecommunications from the <u>another</u> higher layer processor to <u>another</u> [[a]] digital cross-connect; and
- (F) routing the telecommunications from the <u>other</u> higher layer processor to [[a]] <u>other</u> telecommunications physical interface.
- 19. (Original) The method of claim 17 wherein the step (A) of receiving telecommunications traffic further comprises the step of:
  - (A1) receiving telecommunications at a SONET physical layer interface.
- 20. (Original) The method of claim 17 wherein the step (C) of routing the telecommunications traffic further comprises the step of:
- (C1) routing the telecommunications traffic to an asynchronous transfer mode (ATM) processor.
- 21. (Original) The method of claim 17 wherein the step (C) of routing the telecommunications traffic further comprises the step of:

- (C2) routing the telecommunications traffic to an internet protocol (IP) processor.
- 22. (Currently Amended) The method of claim 17 wherein the step(C) of routing the telecommunications traffic further comprises the step of:
- (C3) providing 1:1 automatic protection switching for communications traffic from at least one of the physical layer interfaces to one or more telecommunications higher-layer interfaces.
- 23. (Currently Amended) The method of claim 17 wherein the step(C) of routing the telecommunications traffic further comprises the step of:
- (C4) providing 1:N automatic protection switching for communications traffic from at least one of the physical layer interfaces to one or more telecommunications higher-layer interfaces.
- 24. (Currently Amended) The method of claim 18 wherein the step (E) of routing the telecommunications traffic further comprises the step of:
- (E1) providing 1:1 automatic protection switching for communications traffic to at least one of the physical layer interfaces from one or more <u>telecommunications</u> higher-layer interfaces.
- 25. (Original) The method of claim 18 wherein the step (E) of routing the telecommunications traffic further comprises the step of:
- (E2) providing N:1 automatic protection switching for communications traffic to at least one of the physical layer interfaces from one or more higher-layer interfaces.